smartnav touchscreen
by Trafficmaster™

TOUCH SCREEN

The perfect visual aid
for your Smartnav

USER MANUAL

smartnav touchscreen
by Trafficmaster™

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ATTENTION! IMPORTANT SAFETY INFORMATION

The Highway Code and current traffic conditions must always be observed and take precedence over the instructions issued by Smartnav. You should be aware of situations where current traffic conditions and the instructions from Smartnav may be in conflict.

The use of the Smartnav system does not relieve you of your responsibilities. You are ultimately responsible for the vehicle under your control and should be aware of the surroundings at all times.

For traffic safety reasons, it is recommended that routes should be set up in a stationary vehicle before starting a journey.

In certain areas, one-way streets, turn restrictions and entry prohibitions (e.g. pedestrian zones), are not recorded. Particular attention must be paid to one-way streets, turn restrictions and entry prohibitions.

SYSTEM OVERVIEW

Smartnav Touch Screen is Trafficmaster's full feature, in-car navigation system, combining powerful navigation servers with a GPS (Global Positioning System) based satellite tracking, state-of-the-art digital speech synthesis and a touch-sensitive visual display.

The navigation computer, which is located at the Trafficmaster Control Centre, calculates the best route to your destination, taking into consideration current traffic conditions, historic and forecast information and incident reports. The route is then sent via the GSM (mobile phone system) to your in-car unit, which will then intelligently guide you turn-by-turn to your destination using the most efficient route.

IMPORTANT NOTES ON THE FUNCTION OF YOUR NAVIGATION SYSTEM

GPS positioning

The accuracy of position measurement can be impaired by poor or interrupted GPS signals.

In tunnels, underground car parks and in similar conditions, the vehicle will be unable to receive a signal from at least three satellites, and guidance will not be available.

GSM coverage

Mobile phone networks have incomplete coverage and there may be occasions, due to geographical conditions or a busy network, when you are unable to communicate with the Smartnav Control Centre.

If you are unable to connect to the Control Centre, you will hear the following message:

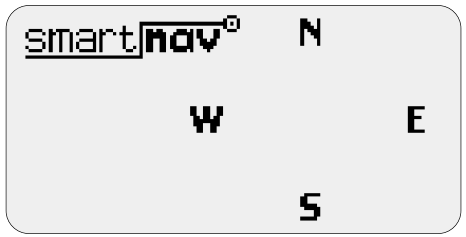
"The mobile phone network failed to connect your call, Smartnav is trying again – use the Smartnav menu if you wish to cancel."

If you do not cancel the call, Smartnav will attempt to contact the Control Centre for up to ten minutes. During this period, it may help to move the vehicle a short distance to obtain better GSM coverage.

FAMILIARISING YOURSELF WITH YOUR SMARTNAV TOUCH SCREEN

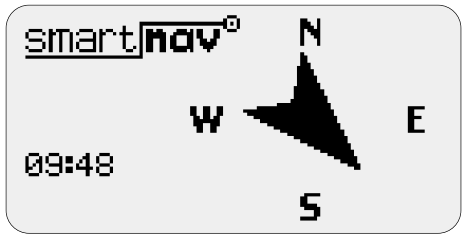
Depending on how your Smartnav Touch Screen unit has been fitted, the unit can be operated in the following ways:

- If both the screen display and the Smartnav button are installed, the button can also be used to make guidance requests.
- If you have not had the Smartnav button installed, all guidance related requests should be made through the Smartnav Touch Screen.

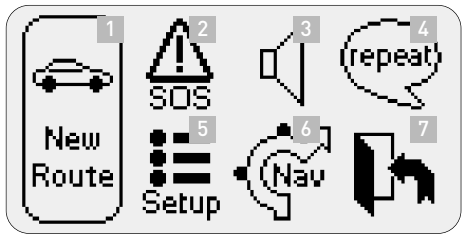


Start-up behaviour

Start the vehicle ignition and wait 10 seconds for the system to activate. Once the unit has received signals from at least three GPS satellites, the compass indicator will show your current heading and the current time will be displayed.



Touch the screen to view the main menu:



1. Request a new route
2. SOS facility
3. Quiet mode/mute volume
4. Repeat last instruction
5. Customise screen options
6. Cancel/suspend/re-route
7. View previous screen

- The screen will also display sub-menus dependent on your selection from the main menu.
- Press from any menu to return to the previous screen.
- If you do not touch the screen for 10 seconds, then the screen will return to the compass indicator screen.

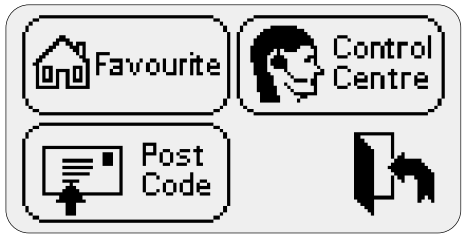
GETTING FROM A-B

To enter a new destination

To request a route via the screen, press the screen once to bring up the main menu.

Press

to view the following sub-menu:



Favourite destination screen

Names of up to 10 Favourite destinations can be stored. Use the

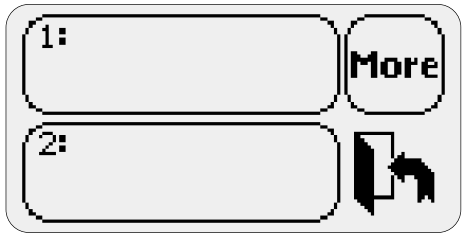
icon to view all pre-set destinations.

To use this option, you will need to first set up your Favourite destination(s) by logging onto your personal page of the Smartnav website at www.smartnav.com. If you do not know your login and password details, please call Customer Services on 08702 405 752.

Your Favourites are automatically updated each time you request a new route and the new destination menu will indicate when Favourites have been updated. Alternatively, you can manually update your Favourites:

When you have saved your destination on-line, press

and the following menu will be displayed.



To allow the Smartnav Touch Screen to access your saved destination(s), press

five times until the following menu appears:

Press

to refresh your destinations from the website.

Once your Favourites have been refreshed, the names you have given them will be displayed, similar to the illustration below:

Select the name of your chosen route to request guidance to your destination.

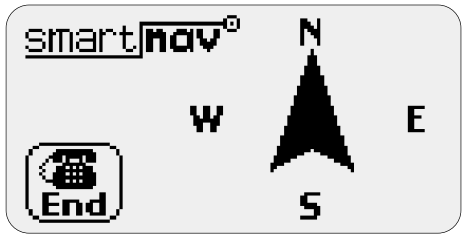
Control Centre

Press Control Centre to call the Smartnav Control Centre which is operational 24 hours a day 7 days a week.

You will hear the following message:

"Calling the Smartnav Control Centre"

and End will be displayed on the screen to confirm that a call is being initiated; press the phone icon if you wish to cancel the call.



A Smartnav Personal Assistant (PA), who simultaneously sees your current position displayed on their control screen, will answer your call and ask you for your intended destination.

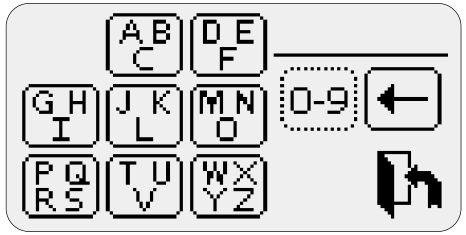
You can provide your destination details in the following ways:

- A house number and street address in a town.
- OR a postcode.
- OR a point of interest such as 'Reading Railway Station', 'Terminal 4 Heathrow Airport', etc.
- OR a stored Favourite destination set up on your web page (see Smartnav website).
- OR one of your 5 last destinations.

If you have the Smartnav button installed you can also contact the Control Centre by pressing and holding it for 2 seconds.

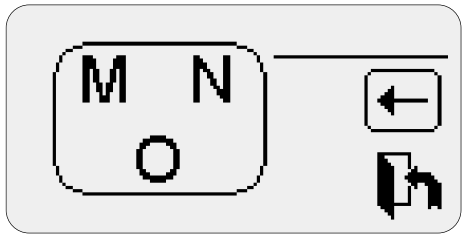
Postcode destination screen

Press Post Code if you wish Smartnav to route you to the postcode for your destination (Note you must enter the complete postcode). The following screen will appear:



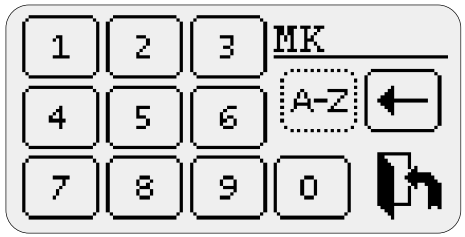
- Use the alphanumeric keypad to enter the postcode. As you enter the details, the cursor will auto-advance and select numbers or letters according to its position and the UK postcode format.
- To enter alphabetic characters, press the single key which contains the required letter.

After this, an enlarged key pad appears which enables you to select which of the alphanumeric characters contained within the single key you require e.g. pressing the M/N/O key will cause the following menu to appear:



Press the desired letter that you wish to select directly (e.g. M).

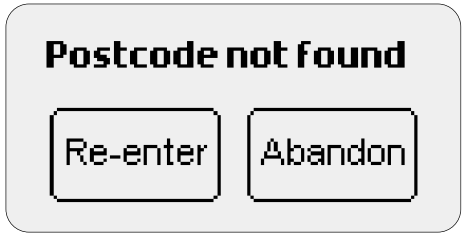
- The menu can be changed from characters (A to Z) to numbers (0 to 9) by pressing 0-9. This will display the following menu:



The menu can be changed back to characters via the A-Z icon.

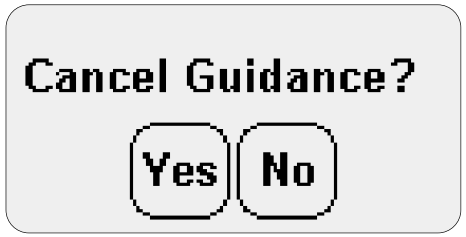
- Correct errors made during postcode entry by using the ← icon.
- Cancel the route entry process at anytime by using the ↩ icon.
- Use the Confirm Postcode icon to confirm you have entered the postcode correctly and to request route guidance.

If you enter a postcode incorrectly, or it cannot be recognised, an error message will be displayed and you will be prompted to re-enter the postcode.



Cancelling a route request

Once you have entered your intended destination, or requested the unit to contact the Smartnav Control Centre, your Smartnav Touch Screen will display End. Press this icon if you wish to cancel the route request. You will be prompted to confirm that you wish to cancel the call by pressing either yes or no from the screen display:

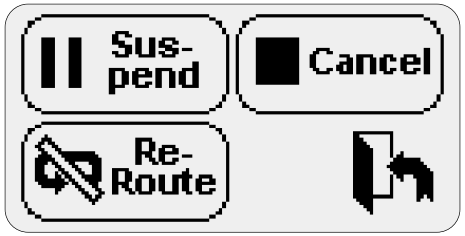


USE OF SMARTNAV TOUCH SCREEN WHILST DRIVING

Cancel/suspend/re-route functions

You can cancel, suspend or re-route during guidance by pressing Nav from the main menu.

Choose your desired option from the following sub-menu:



Cancel

This button will cancel your current route.

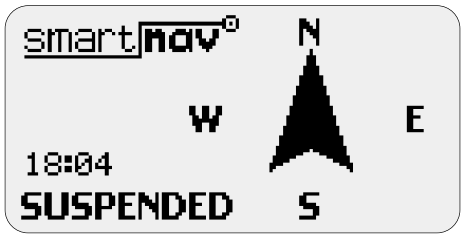
Re-route

This button requests a new route to your current destination (only available if you have gone off route or Smartnav has advised that due to traffic conditions there is a quicker route available).

Suspend

This button will suspend your current route. The icon will change to display Re-Sume and no further guidance (spoken or graphical) will be provided until you select this icon.

If you exit this menu (via the icon), then the display will indicate that guidance has been suspended:



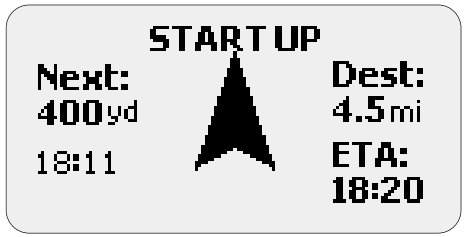
The Smartnav unit will provide spoken instructions as your primary method of route guidance. The Smartnav Touch Screen has been designed to provide supplementary visual instructions and can, if preferred, be customised to provide the only method of navigation.

Instructions at roundabouts

Note: Smartnav only recognises roundabouts that are kerbed. Mini roundabouts that are painted onto the road surface are treated as a junction. If the route being followed passes straight across this type of mini roundabout, Smartnav will not give an instruction. If the route being followed requires a turn, Smartnav will give a normal turn left or turn right instruction.

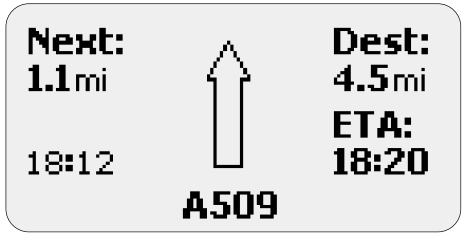
Visual instructions

When the route has been downloaded to your screen, you will see the guidance start-up menu:



The display offers a compass indicator to assist the driver in choosing in which direction to initially travel at the start of a route. The compass indicator will show the direction and the distance (as the crow flies) to the nearest point on your route (when this exceeds 25 yards). The compass disappears as soon as the route is joined, i.e. the first guidance instruction is given.

Information displayed on your Smartnav Touch Screen during guidance



Journey and arrival information are displayed during route guidance on the right hand side of the screen to show:

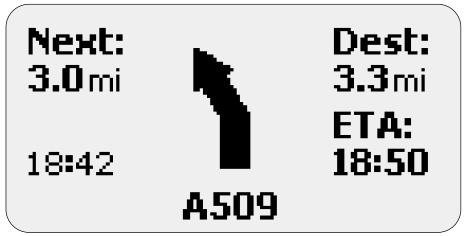
- Outstanding distance to your destination.
- Your estimated time of arrival (ETA). (Note, no ETA is provided for routes within central London).

The distance to the next manoeuvre is displayed on the left hand side of the screen. The name of the road that you are currently on is shown on the bottom of the screen (or "Local Road" is shown if the road has no name).

The "straight ahead arrow" is displayed at all times when a junction manoeuvre is not required. This will be replaced:

- By a junction pictogram and a spoken instruction as you approach a junction (see Junctions below).
- At times when Smartnav believes additional guidance is required, e.g. shortly before a side road *not* to be taken.

In the latter case, there is no spoken instruction. The display shows a highlighted arrow, indicating the correct direction of travel with no side roads e.g. if the road bears to the left:

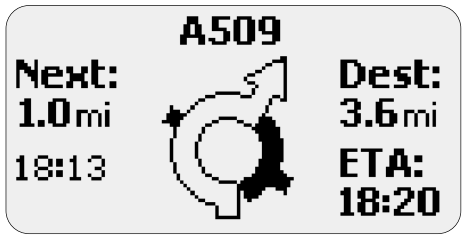


Junctions

As you approach a junction, the screen will display graphics similar to road signs, to complement the verbal guidance instructions. The Touch Screen will display the following types of graphics:

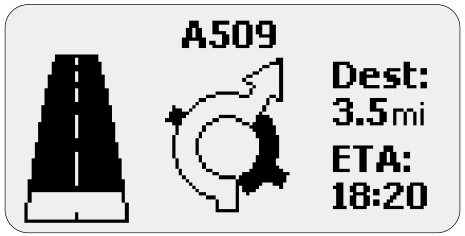
Advance preparation graphics

As you approach a manoeuvre (e.g. 1 mile in advance of intended motorway exit), a graphic representing the junction ahead appears in the centre of the screen along with the name of the road you will be turning onto on the top of the screen. A preparation instruction is simultaneously spoken:

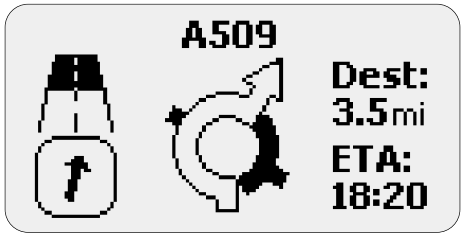


Imminent warning graphics

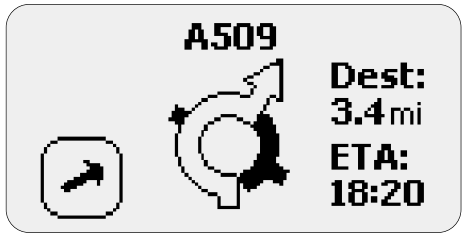
When the manoeuvre is imminent (e.g. 400 yards in advance of junction) or in progress, the numerical display of the distance is replaced by a graphical indication of the distance to the junction:



As you get very close to the junction (typically 100 yards), an exit indicator is displayed at the bottom left of the screen*. These dynamic arrows are intended to give you additional guidance at complex junctions and large roundabouts by indicating where your exit is relative to your current direction of travel.



When negotiating roundabouts, the exit indicator will remain on the screen while you drive round the roundabout. The exit indicator will point you towards the correct exit.

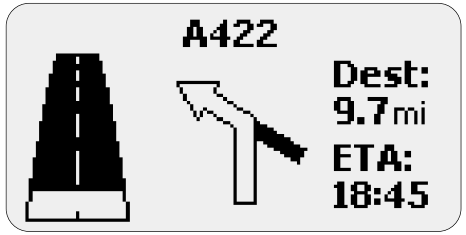


The junction pictogram is withdrawn when the junction has been passed, or if you drive off route.

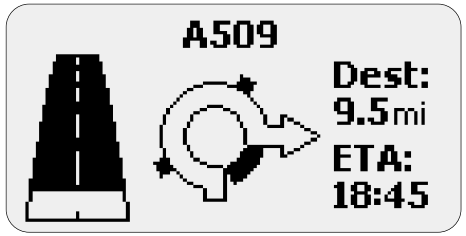
Manoeuvre pictograms

The following are examples of the various kinds of manoeuvre pictograms:

Junctions – *"Turn left."*

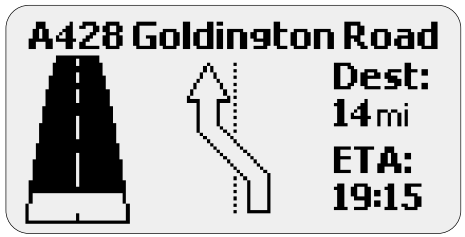


Roundabouts – *"Take the third exit of the roundabout."*



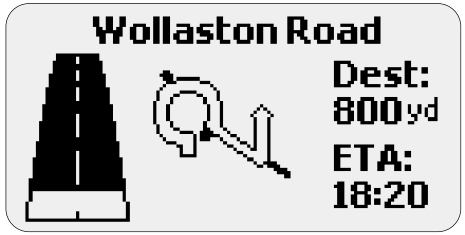
* The feature has to be enabled via the Smartnav website Edit Options page.

Lane changes – *"Move into the left hand lane."*



Graphics for junctions close together

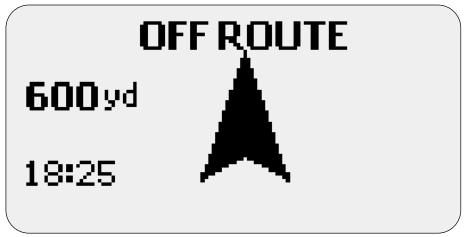
Some junctions along your route may be too close together to be displayed individually. On these occasions the screen will display the manoeuvres together:



"Take the second exit of the roundabout and then immediately turn sharp left."

Going off route

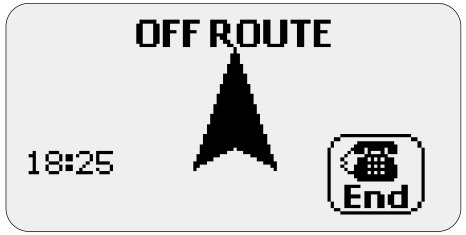
If you go off the planned route, the following screen will be displayed:



You will hear "You are no longer on the planned route. Smartnav is automatically calculating a new route to your destination".

The compass indicator will show the direction and the distance (as the crow flies) to the nearest point on your route.

If your Smartnav unit is requesting a re-route to your destination, the phone icon will also be displayed:



Arrival

Upon arrival at your destination a chequered flag will be shown:

You will hear *"You are arriving at your destination."*

ADDITIONAL REQUESTS/FUNCTIONS DURING NAVIGATION

Clock

A clock will be displayed on the bottom left of the screen.

Note: The clock will automatically update itself as a result of GMT/BST time the next time you request a route after it has changed. This is very accurate because the time is corrected by the GPS satellites.

Repeat function

Press repeat from the main menu to:

- Repeat a previously spoken instruction.
- Silence (stop) speech.
- Repeat an instruction that would have been delivered but for a phone call being in progress.
- Suppress automatic route summary information if pressed within 4 minutes of downloading a route. You can also switch off the route summary via your preferences page at www.smartnav.com.

Audio prompts

A number of distinct audio prompts will be generated by the Smartnav Touch Screen to confirm selections OR to attract your attention:

- You miss a guidance instruction whilst receiving a voice call.

Mute function

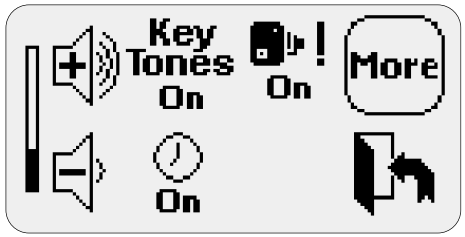
The mute icon on the main menu has three basic functions:

Icon	Navigation active only
	Verbal instructions will be provided at the set level
	Minimises volume level to be audible without being intrusive
	No guidance speech will be provided

CUSTOMISING YOUR SMARTNAV TOUCH SCREEN

Access the customise menu by pressing Setup from the main menu.

The following menu will then be shown:



The current settings will be displayed. Pressing these icons will change the current settings as follows:

Volume

Press or to adjust the volume of the spoken guidance instructions up and down.

Key tones

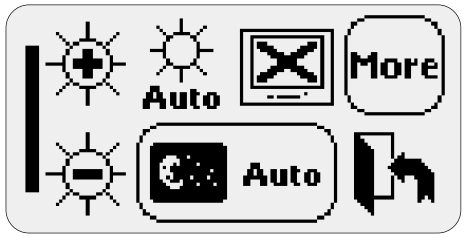
Press Key Tones Off to turn off the "beep" produced when the screen is touched. This can be turned back on by pressing Key Tones On.

Clock

Press Off to turn off the clock display from the main screen. It can be turned back on again by pressing On.

Screen settings

Select More to access the screen settings menu shown below:



Brightness

The brightness of the screen backlight is automatically controlled (this is shown by Auto).

If you wish to manually adjust the brightness, then use OR to increase or reduce the brightness.

The screen can be returned to automatic brightness control by pressing the Man icon.

Night mode

The screen is automatically set to self adjust to night mode when the outside light levels fall below daylight level. This is shown by Auto. To manually adjust this setting, you can press the icon, which changes to Off and On as you do so.

Display off

The screen can be completely turned off by pressing . Touching the screen again will turn it back on.

It also comes back on automatically when the car has been switched off and back on again.

OTHER FUNCTIONS OF YOUR SMARTNAV TOUCH SCREEN

SOS facility

You can use your Smartnav Touch Screen to call for assistance in cases of emergency and/or breakdown.

Press SOS from the main menu. This will bring up the following menu:

Pressing the Emergency icon will directly connect you to the emergency services.

Pressing the Breakdown icon will connect you to the Smartnav Control Centre.

Receiving a call

You can receive a voice call on your Smartnav Touch Screen. Your Smartnav unit contains a dedicated GSM number, which you can access by logging onto your personal page at www.smartnav.com. This allows you to receive incoming calls only, as if you had a hands-free car kit.

If a voice call is made to your Smartnav Touch Screen unit, the caller's number will be displayed on your screen where the CLI (Call Line Identity) is available. If the caller withholds their number "Anonymous Call" will be displayed. You will simultaneously hear a standard ringing tone.

- Press Answer to answer the call.
- Press Cancel if you do not want to answer the call.

You will not receive spoken navigation instructions when you are using the Smartnav Touch Screen to receive a voice call, but you will hear an audible alert to inform you that there is a necessary instruction based on your current position. If you have answered the call, it may be ended at any time by pressing End.

Tone settings during a voice call

Icon	Navigation active and voice call
	Tones will be provided at the set level
	Minimises volume level of tones
	Turns off alert tones

The Smartnav website – www.smartnav.com

The Smartnav website enables you to enter:

- Personal details.
- Standard destinations which may then be retrieved by name when using Smartnav.
- Routing preferences, e.g. motorways/non motorways.
- Purchase of credits and personal account management for Pay As You Go customers.
- Purchase of additional services subscriptions.
- Find out your phone number to receive incoming voice calls.
- Activate exit indicator screen graphics.
- Suppress automatic route summary.

The website also carries information on the latest Smartnav developments along with product updates.

SMARTNAV OPTIONS

Smartnav offers a number of additional subscription services to optimise your driving experience:

Safe Speed option: to protect you and your licence by audibly alerting you when driving through zones monitored by safety cameras.

RAC Trackstar Plus option: to track and locate your vehicle should it be stolen.

Extended Warranty option: to protect your Smartnav unit after the initial one year guarantee.

To subscribe to these services call 0870 050 3000, Monday to Friday 9:00 – 17:30 or upgrade on line at www.smartnav.com

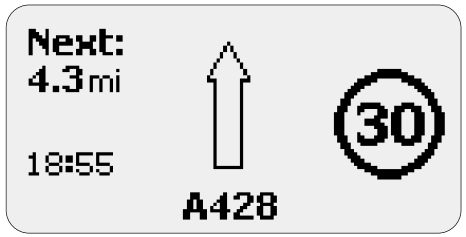
Icons displayed for Safe Speed option

If the customise menu shows then your Smartnav unit does not have a Safe Speed subscription.

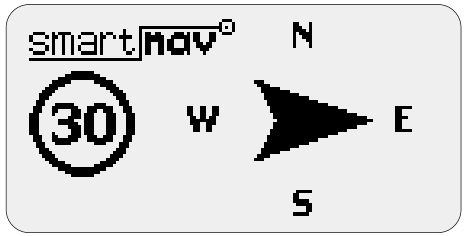
The Safe Speed option is designed with safe driving as a priority. The system works by alerting you when you approach zones monitored by fixed safety cameras, variable safety cameras and multi-camera detectors (also known as Specs). The system will help you to drive in accordance with the speed limits by warning you as you approach the monitored zone.

For fixed single cameras

Two levels of warning are provided - one as you approach the monitored zone (3 short beeps) and a second (5 beeps) immediately before the monitored zone. The screen will also display the speed for that zone as follows:



Screen display when guidance is active.



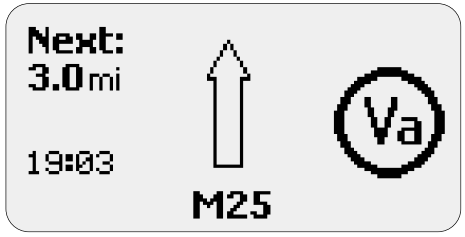
Screen display when guidance not active.

For Specs cameras, where your average speed is recorded through the monitored zone, you will also receive two levels of warning – one as you approach the monitored zone (3 long beeps) and the second immediately before the monitored zone (5 long beeps).

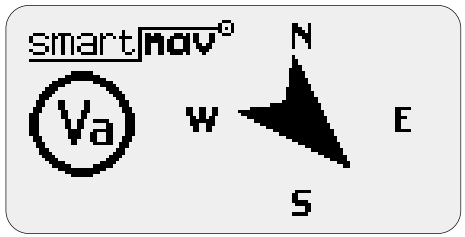
For both types of camera, if you drive over the speed limit for that zone, your unit will emit continuous beeps at a higher volume until you return to the safe legal limit.

For variable speed limit areas (e.g. M25)

The system alerts you to the monitored zone in exactly the same manner as for a fixed zone. There is, however, no over speed warning for these sites. The screen will highlight that the zone has variable speed limits as follows:



Screen display when guidance is active.



Screen display when guidance not active.

Temporary safety camera zones (e.g. where road markings exist but a speed camera is not permanently present in the zone) are not incorporated within the service, hence no alerts will be given when approaching these sites.

The database of safety camera zones is continuously updated by our data research team. The data within your Smartnav unit will be automatically updated once a month, when you next use your Smartnav unit for navigation.

Safe Speed option is operational every time you make a journey, with or without navigation active. Warnings can be disabled or reactivated via the icons Off and On accessed from the customise menu.

TROUBLESHOOTING

The following table lists problems that may occur with your unit. If the suggested action does not resolve the problem or your problem is not listed in the table, please contact your dealer.

Problem	Action	Comments
Touch Screen is blank	Check ignition is on	Screen is off unless ignition is on
	Press touch screen	Screen could be off
Display shows "Connection Error"	Wait 5 minutes	Your Smartnav unit is probably being remotely upgraded
Unable to contact the Call Centre	Try driving to another area	You may have a problem with the coverage of the GSM network
Your Touch Screen fails to display the compass indicator or says "No guidance until GPS active"	Wait 5 minutes	Your Smartnav unit needs time to acquire the GPS signals
	Try driving to another area	You have a problem with your GPS coverage
Backlight turns off	Touch Screen has switched off the backlight because the ambient temperature is too high	This occurs if the internal temperature is over 60°C

SUMMARY OF WARRANTY/ TERMS AND CONDITIONS OF USE

Smartnav Touch Screen is supplied with a 12 month warranty. Trafficmaster Plc warrants its products against defects in material and workmanship for a period of 12 months from the date of purchase.

Proof of purchase will be required before any warranty consideration by Trafficmaster Plc. Smartnav Touch Screen requires a Smartnav Unit to be installed in your vehicle in order to operate and a current subscription or pay-as-you-go credit is required to ensure continued use of this equipment. The purchase of a subscription or pay-as-you-go credit also represents your licence for the use of Trafficmaster traffic information. The information is the copyright of Trafficmaster Plc and no unauthorised broadcast or other public use of the information is permitted without written authorisation from Trafficmaster Plc. All warranty repairs must be forwarded to Trafficmaster Plc at the expense of the purchaser.

This warranty does not cover any damage caused by negligence, failure to follow the instructions in the user manual, unauthorised modifications, or inappropriate installation. Trafficmaster cannot be held responsible for any damage that may occur resulting from installation or modification by anyone other than a Trafficmaster technician or the company's appointed agents.

The warranty does not apply if the product has been damaged by accident, abuse, misuse, cosmetic wear and tear, or misapplication, or as a result of service to the product by anyone other than Trafficmaster Plc, or an approved Trafficmaster agent.

Your Smartnav Touch Screen unit has been fitted by an approved Trafficmaster technician or a Trafficmaster appointed agent. Altering the position of your Smartnav Touch Screen installation could interfere with the operation of driver or passenger airbags or the vehicle controls. Trafficmaster cannot be held responsible for any malfunction of the vehicle or its systems resulting from incorrect fitment of the Smartnav Touch Screen unit. If you have any doubts, please refer to the vehicle manufacturer for assistance.

Trafficmaster Plc is not responsible for any financial loss, or other incidental or consequential damage arising out of the use of, or inability to use, this product. This includes damage to property and, to the extent permitted by law, damages for personal injury and death.

The Purchaser expressly acknowledges that the operation of Smartnav Touch Screen may from time to time be adversely affected by physical features such as buildings, underpasses, atmospheric conditions and other causes of interference beyond the control of Trafficmaster Plc, who will not be liable to the subscriber for any loss or damage incurred. This product must always be used in conditions that will not affect your ability to drive safely or affect the safety of other road users. This warranty applies only to the Smartnav Touch Screen product and does not affect your statutory rights. The Purchaser acknowledges that the purchase of the Smartnav Touch Screen Unit does not in any way mitigate his or her duty to obtain adequate insurance for the vehicle.

Full terms and conditions can be found on the Smartnav internet site at www.smartnav.com.

Trafficmaster Plc has the right to amend the above terms at any time without prior notification.

Information in this manual is correct at time of printing.

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Trafficmaster